JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY, VOLUME 247 (1988)

AUTHOR INDEX

Alcaraz, M.L. 99, 119
Anderson, J.L. 1
Aoki, K. 17, 29
Ardizzone, S. 185

Beltran, C. 203
Berry, G.M. 241
Bhargava, S. 229
Blackwood, D.J. 277

Cabot, P.L. 323
Chang, A.-C. 173
Chevalet, J. 37
Cortés, M. 323
Cox, J.A. 315
Cunnane, V.J. 203
Czerwinski, A. 85

Das, B.K. 315
Dutkiewicz, E. 57

Etcheberry, A. 265

Fatouros, N. 37
Fleischmann, M. 297, 311
Formaro, L. 185

Galvez, J. 99, 119
Gautron, J. 265
Geblewicz, G. 203
Gómez, E. 323
Goyal, R.N. 229
Gray, T. 315
Groot, R.D. 73

Hwa Kai Ting, O. 85

Iyoda, J. 333

Jacobs, J.W.M. 135

Kaneko, H. 17, 29
Kariv-Miller, E. 345
Kathirgamanathan, P. 351
Kawai, W. 333
Keita, B. 157
Kleijn, M. 253
Kojima, H. 333
Korolczuk, M. 329
Krulic, D. 37

Lamperski, S. 57
Lawin, P.B. 345
Lin, Y.P. 145
Lipkowski, J. 85

Mao, B.W. 297, 311
Marczak, S. 215
Mathur, N.C. 229
Matysik, J. 329
Mebrahtu, T. 241
Miller, L.L. 173
Moldoveanu, S. 1

Nadjo, L. 157
Nakamura, S. 339
Nozaki, K. 29

Ohsaka, T. 339
Ou, T.-Y. 1
Oyama, N. 339

Park, S.-M. 99, 119
Piasecki, A.K. 287
Pons, S. 277

Schiffrin, D.J. 203
Sculfort, J.L. 265
Seto, J. 193
Śledzik, J. 287
Solomon, T. 203
Soriaga, M.P. 241

Takahira, Y. 339
Taraszewska, J. 287

Vallés, E. 323
Van der Eerden, J.P. 73
Van Leeuwen, H.P. 253

Wallace, G.G. 145
Wilson, J. 85
Wrona, P.K. 215

Yamamura, S. 333
Yasuda, A. 193

JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY, VOLUME 247 (1988)

AUTHOR INDEX

Alcaraz, M.L. 99, 119
Anderson, J.L. 1
Aoki, K. 17, 29
Ardizzone, S. 185

Beltran, C. 203
Berry, G.M. 241
Bhargava, S. 229
Blackwood, D.J. 277

Cabot, P.L. 323
Chang, A.-C. 173
Chevalet, J. 37
Cortés, M. 323
Cox, J.A. 315
Cunnane, V.J. 203
Czerwinski, A. 85

Das, B.K. 315
Dutkiewicz, E. 57

Etcheberry, A. 265

Fatouros, N. 37
Fleischmann, M. 297, 311
Formaro, L. 185

Galvez, J. 99, 119
Gautron, J. 265
Geblewicz, G. 203
Gómez, E. 323
Goyal, R.N. 229
Gray, T. 315
Groot, R.D. 73

Hwa Kai Ting, O. 85

Iyoda, J. 333

Jacobs, J.W.M. 135

Kaneko, H. 17, 29
Kariv-Miller, E. 345
Kathirgamanathan, P. 351
Kawai, W. 333
Keita, B. 157
Kleijn, M. 253
Kojima, H. 333
Korolczuk, M. 329
Krulic, D. 37

Lamperski, S. 57
Lawin, P.B. 345
Lin, Y.P. 145
Lipkowski, J. 85

Mao, B.W. 297, 311
Marczak, S. 215
Mathur, N.C. 229
Matysik, J. 329
Mebrahtu, T. 241
Miller, L.L. 173
Moldoveanu, S. 1

Nadjo, L. 157
Nakamura, S. 339
Nozaki, K. 29

Ohsaka, T. 339
Ou, T.-Y. 1
Oyama, N. 339

Park, S.-M. 99, 119
Piasecki, A.K. 287
Pons, S. 277

Schiffrin, D.J. 203
Sculfort, J.L. 265
Seto, J. 193
Śledzik, J. 287
Solomon, T. 203
Soriaga, M.P. 241

Takahira, Y. 339
Taraszewska, J. 287

Vallés, E. 323
Van der Eerden, J.P. 73
Van Leeuwen, H.P. 253

Wallace, G.G. 145
Wilson, J. 85
Wrona, P.K. 215

Yamamura, S. 333
Yasuda, A. 193

JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY, VOLUME 247 (1988)

SUBJECT INDEX

Alizarin red S,
charge transport rates in polyelectrolyte films on electrodes. Disparate diffusion coefficients for ——— with two separate electroactive centers (Ohsaka et al.) 339

Arsenic,
dc polarographic study of catalytic hydrogen evolution in the Pt(IV)–———(III) system (Korolczuk, Matysik) 329

Carbon dioxide,
photocatalytic reduction of ——— with metal-loaded SiC powders (Yamamura et al.) 333

Carbon fiber electrodes,
estimation of charge transfer kinetic parameters from irreversible cyclic voltammograms at ——— (Aoki et al.) 29

Charge transfer,
estimation of ——— kinetic parameters from irreversible cyclic voltammograms at carbon fiber electrodes (Aoki et al.) 29

Charge transport,
——— rates in polyelectrolyte films on electrodes. Disparate diffusion coefficients for Alizarin red S with two separate electroactive centers (Ohsaka et al.) 339

Chromium,
electrooxidative formation and characteristics of ———(III)–thio complexes at mercury electrodes (Marczak, Wrona) 215

Coal-derived compounds,
electrocatalytic hydrogenation and oxidation of model ——— chemisorbed at smooth polycrystalline Pt: a survey (Mebrahtu et al.) 241

Conducting polymers,
preparation and application of ——— containing chemically active counterions for analytical purposes (Wallace, Lin) 145

β-Cyclodextrin,
adsorption of ——— on the mercury electrode from water and a water + ethanol mixture (Taraszewska et al.) 287

Dioxygen,
study of the mechanisms of ——— reduction at n- and p-InP in acid aqueous electrolyte (Etcheberry et al.) 265

EE mechanism,
theory of the ——— with adsorption of the intermediate at an electrode expanding with any power law or at a DME (expanding sphere electrode model) (Galvez et al.) 119

Electrochromic thin films,
electrochromic properties of vacuum evaporated organic thin films. Part I. ——— of the three primary colors (Yasuda, Seto) 193

Electron transfer,
hydrodynamic voltammetry at an interdigitated electrode array in a flow channel. Part II. Chemical reaction succeeding ——— (Ou et al.) 1

Expanding sphere electrode,
potentiostatic response when reactant and product are adsorbed at an electrode expanding with any power law or at a DME (——— model) (Galvez et al.) 99
Theory of the EE mechanism with adsorption of the intermediate at an electrode expanding with any power law or at a DME (——— model) (Galvez et al.) 119

Faradaic impedance methods,
——— as applied to the study of the potentiodynamic passivation of zinc in alkaline media (Cabot et al.) 323

Ferrocyanide,
electrochemically controlled binding and release of salicylate, $TCNQ^{\cdot-}$ and ——— from films of oligomeric 3-methoxythiophene (Chang, Miller) 173

Flow channel,
hydrodynamic voltammetry at an interdigitated electrode array in a ———. Part II. Chemical reaction succeeding electron transfer (Ou et al.) 1

Gold,
in-situ X-ray diffraction investigations of the UPD of Tl and Pb on Ag and ——— electrodes (Fleischmann, Mao) 297

Heteropoly oxometalates,
surface modifications with ——— and isopoly oxometalates. Part III. Electrode modification procedures. The necessity of proton interference during the electrodeposition of the h.e.r. catalysts (Keita, Nadjo) 157

Hydrodynamic voltammetry,
——— at an interdigitated electrode array in a flow channel. Part II. Chemical reaction succeeding electron transfer (Ou et al.) 1

Hydrogen,
dc polarographic study of catalytic ——— evolution in the Pt(IV)–As(III) system (Korolczuk, Matysik) 329
In situ X-ray diffraction measurements of the surface structure of Pt in the presence of "weakly" adsorbed ——— (Fleischmann, Mao) 311
Voltammetric characteristics of the RuO_2 film electrode in relation to the catalytic properties of RuO_2 for the photochemical production of ——— (Kleijn, Van Leeuwen) 253

Indium phosphide,
study of the mechanisms of O_2 reduction at n- and p-——— in acid aqueous electrolyte (Etcheberry et al.) 265

Interdigitated electrode array,
hydrodynamic voltammetry at an ——— in a flow channel. Part II. Chemical reaction succeeding electron transfer (Ou et al.) 1

γ-Ironoxyhydroxide,
composition and diffusion properties of ——— deposited in sulphate solutions (Ardizzone, Formaro) 185

Irreversible cyclic voltammograms,
estimation of charge transfer kinetic parameters from ——— at carbon fiber electrodes (Aoki et al.) 29
Theory of ——— at microcylinder electrodes (Aoki, Kaneko) 17

Isopoly oxometalates,
surface modifications with heteropoly and ———. Part III. Electrode modification procedures. The necessity of proton interference during the electrodeposition of the h.e.r. catalysts (Keita, Nadjo) 157

Isoquinoline,
in-situ surface Fourier transform infrared study of the adsorption of ——— at a stationary mercury electrode (Blackwood, Pons) 277

Lead,
in-situ X-ray diffraction investigations of the UPD of Tl and ——— on Ag and Au electrodes (Fleischmann, Mao) 297

Mercury,
adsorption of β-cyclodextrin on the ——— electrode from water and a water + ethanol mixture (Taraszewska et al.) 287
Electrooxidative formation and characteristics of Cr(III)–thio complexes at ——— electrodes (Marczak, Wrona) 215
In-situ surface Fourier transform infrared study of the adsorption of isoquinoline at a stationary ——— electrode (Blackwood, Pons) 277

3-(Methoxyethoxyethoxymethyl)thiophene,
electrochemical and chemical formation of blends, composites and co-polymers of ——— (Kathirgamanathan) 351

3-Methoxythiophene,
electrochemically controlled binding and release of salicylate, $TCNQ^{\cdot-}$ and ferrocyanide from films of oligomeric ——— (Chang, Miller) 173

Microcylinder electrodes,
theory of irreversible cyclic voltammograms at ——— (Aoki, Kaneko) 17

Molecular interactions,
effect of ——— at the interface. Part II. The metal/ non-aqueous electrolyte interface (Dutkiewicz, Lamperski) 57

Nafion,
anodic behaviour of ———-coated electrodes in basic media (Cox et al.) 315

Nucleation,
note on a theory of three-dimensional electrochemical ——— with diffusion-controlled growth (Jacobs) 135

Organic thin films,
electrochromic properties of vacuum evaporated ———. Part I. Electrochromic thin films of the three primary colors (Yasuda, Seto) 193

Phase transfer catalysts,
the role of ——— in two phase redox reactions (Cunnane et al.) 203
Platinum,
dc polarographic study of catalytic hydrogen evolution in the ———(IV)–As(III) system (Korolczuk, Matysik) 329
Electrocatalytic hydrogenation and oxidation of model coal-derived compounds chemisorbed at smooth polycrystalline ———: a survey (Mebrahtu et al.) 241
In situ X-ray diffraction measurements of the surface structure of ——— in the presence of "weakly" adsorbed H (Fleischmann, Mao) 311
Polyelectrolyte films,
charge transport rates in ——— on electrodes. Disparate diffusion coefficients for Alizarin red S with two separate electroactive centers (Ohsaka et al.) 339
Potentiostatic response,
——— when reactant and product are adsorbed at an electrode expanding with any power law or at a DME (expanding sphere electrode model) (Galvez et al.) 99
Proton,
surface modifications with heteropoly and isopoly oxometalates. Part III. Electrode modification procedures. The necessity of ——— interference during the electrodeposition of the h.e.r. catalysts (Keita, Nadjo) 157

Ruthenium dioxide,
voltammetric characteristics of the ——— film electrode in relation to the catalytic properties of RuO_2 for the photochemical production of hydrogen (Kleijn, Van Leeuwen) 253

Salicylate,
electrochemically controlled binding and release of ———, $TCNQ^{+-}$ and ferrocyanide from films of oligomeric 3-methoxythiophene (Chang, Miller) 173
Silicon carbide,
photocatalytic reduction of carbon dioxide with metal-loaded ——— powders (Yamamura et al.) 333
Silver,
in-situ X-ray diffraction investigations of the UPD of Tl and Pb on ——— and Au electrodes (Fleischmann, Mao) 297
Single potential step voltammetries,
unified treatment of ——— at a plane electrode and at the DME. New polarisation modes (Fatouros et al.) 37
Solvent effects,
——— in a non-primitive electrolyte model (Groot, Van der Eerden) 73
——— on the rate of homogeneous and electrochemical electron exchange (Wilson et al.) 85
Sulphacetamide,
electrochemical oxidation of ——— (Goyal et al.) 229
Sulphate,
composition and diffusion properties of γ-FEOOH deposited in ——— solutions (Ardizzone, Formaro) 185

Tellurium,
in-situ X-ray diffraction investigations of the UPD of ——— and Pb on Ag and Au electrodes (Fleischmann, Mao) 297
Tetraalkylammonium–lead,
———: electrogeneration and stoichiometry (Kariv-Miller, Lawin) 345
Tetracyano-*p*-quinodimethane,
electrochemically controlled binding and release of salicylate, $TCNQ^{+-}$ and ferrocyanide from films of oligomeric 3-methoxythiophene (Chang, Miller) 173
Thio complexes,
electrooxidative formation and characteristics of Cr(III)–——— at mercury electrodes (Marczak, Wrona) 215
Two phase redox reactions,
the role of phase transfer catalysts in ——— (Cunnane et al.) 203

Zinc,
faradaic impedance methods as applied to the study of the potentiodynamic passivation of ——— in alkaline media (Cabot et al.) 323

JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY

Vol. 247 Nos. 1 and 2 June 10, 1988

CONTENTS

Hydrodynamic voltammetry at an interdigitated electrode array in a flow channel. Part II. Chemical reaction succeeding electron transfer
T.-Y. Ou, S. Moldoveanu and J.L. Anderson (Athens, GA, U.S.A.) 1

Theory of irreversible cyclic voltammograms at microcylinder electrodes
K. Aoki (Yokohama, Japan) and H. Kaneko (Ibaraki, Japan) 17

Estimation of charge transfer kinetic parameters from irreversible cyclic voltammograms at carbon fiber electrodes
K. Aoki (Yokohama, Japan), H. Kaneko and K. Nozaki (Ibaraki, Japan) 29

Unified treatment of single potential step voltammetries at a plane electrode and at the DME. New polarisation modes
N. Fatouros, D. Krulic and J. Chevalet (Paris, France) 37

Effect of molecular interactions at the interface. Part II. The metal/non-aqueous electrolyte interface
E. Dutkiewicz and S. Lamperski (Poznan, Poland) 57

Solvent effects in a non-primitive electrolyte model
R.D. Groot and J.P. van der Eerden (Nijmegen, The Netherlands) 73

Solvent effect on the rate of homogeneous and electrochemical electron exchange
J. Wilson, O. Hwa Kai Ting, J. Lipkowski (Guelph, Canada) and A. Czerwinski (Warsaw, Poland) 85

Potentiostatic response when reactant and product are adsorbed at an electrode expanding with any power law or at a DME (expanding sphere electrode model)
J. Galvez, M.L. Alcarez (Murcia, Spain) and S.-M. Park (Albuquerque, NM, U.S.A.) 99

Theory of the EE mechanism with adsorption of the intermediate at an electrode expanding with any power law or at a DME (expanding sphere electrode model)
J. Galvez, M.L. Alcaraz (Murcia, Spain) and S.-M. Park (Albuquerque, NM, U.S.A.) 119

Note on a theory of three-dimensional electrochemical nucleation with diffusion-controlled growth
J.W.M. Jacobs (Eindhoven, The Netherlands) 135

Preparation and application of conducting polymers containing chemically active counterions for analytical purposes
G.G. Wallace and Y.P. Lin (Wollongong, Australia) 145

Surface modifications with heteropoly and isopoly oxometalates. Part III. Electrode modification procedures. The necessity of proton interference during the electrodeposition of the h.e.r. catalysts
B. Keita and L. Nadjo (Nancy, France) 157

Electrochemically controlled binding and release of salicylate, $TCNQ^{\cdot -}$ and ferrocyanide from films of oligomeric 3-methoxythiophene
A.-C. Chang and L.L. Miller (Minneapolis, MN, U.S.A.) 173

Composition and diffusion properties of γ-FeOOH deposited in sulphate solutions
S. Ardizzone and L. Formaro (Milan, Italy) 185

Electrochromic properties of vacuum evaporated organic thin films. Part I. Electrochromic thin films of the three primary colors
A. Yasuda and J. Seto (Yokohama, Japan) 193

The role of phase transfer catalysts in two phase redox reactions
V.J. Cunnane, D.J. Schiffrin, C. Beltran, G. Geblewicz (Southampton, Great Britain) and T. Solomon (Addis Ababa, Ethiopia) 203

Electrooxidative formation and characteristics of Cr(III)–thio complexes at mercury electrodes
S. Marczak and P.K. Wrona (Warsaw, Poland) 215

Electrochemical oxidation of sulphacetamide
R.N. Goyal, N.C. Mathur and S. Bhargava (Roorkee, India) 229

(*continued on p. 3 of cover*)

Contents (*continued*)

Electrocatalytic hydrogenation and oxidation of model coal-derived compounds chemisorbed at smooth polycrystalline Pt: a survey
T. Mebrahtu, G.M. Berry and M.P. Soriaga (College Station, TX, U.S.A.) 241

Voltammetric characteristics of the RuO_2 film electrode in relation to the catalytic properties of RuO_2 for the photochemical production of hydrogen
M. Kleijn and H.P. van Leeuwen (Wageningen, The Netherlands) 253

A study of the mechanisms of O_2 reduction at n- and p-InP in acid aqueous electrolyte
A. Etcheberry, J. Gautron and J.L. Sculfort (Meudon, France) 265

An in-situ surface Fourier transform infrared study of the adsorption of isoquinoline at a stationary mercury electrode
D.J. Blackwood and S. Pons (Salt Lake City, UT, U.S.A.) 277

Adsorption of β-cyclodextrin on the mercury electrode from water and a water + ethanol mixture
J. Taraszewska, J. Śledzik and A.K. Piasecki (Warsaw, Poland) 287

In-situ X-ray diffraction investigations of the UPD of Tl and Pb on Ag and Au electrodes
M. Fleischmann and B.W. Mao (Southampton, Great Britain) 297

Short communications

In situ X-ray diffraction measurements of the surface structure of Pt in the presence of "weakly" adsorbed H
M. Fleischmann and B.W. Mao Southampton, Great Britain) 311

Anodic behavior of Nafion-coated electrodes in basic media
J.A. Cox, T. Gray (Oxford, OH, U.S.A.) and B.K. Das (Carbondale, IL, U.S.A.) 315

Faradaic impedance methods as applied to the study of the potentiodynamic passivation of zinc in alkaline media
P.L. Cabot, M. Cortés, E. Gómez and E. Vallés (Barcelona, Spain) 323

Dc polarographic study of catalytic hydrogen evolution in the Pt(IV)–As(III) system
M. Korolczuk and J. Matysik (Lublin, Poland) 329

Photocatalytic reduction of carbon dioxide with metal-loaded SiC powders
S. Yamamura, H. Kojima, J. Iyoda and W. Kawai (Osaka, Japan) 333

Preliminary notes

Charge transport rates in polyelectrolyte films on electrodes. Disparate diffusion coefficients for Alizarin red S with two separate electroactive centers
T. Ohsaka, N. Oyama, Y. Takahira and S. Nakamura (Tokyo, Japan) 339

Tetraalkylammonium-lead: electrogeneration and stoichiometry
E. Kariv-Miller and P.B. Lawin (Minneapolis, MN, U.S.A.) 345

Electrochemical and chemical formation of blends, composites and co-polymers of 3-(methoxyethoxyethoxymethyl)thiophene
P. Kathirgamanathan (Perivale, Great Britain) 351

Book review 355

Author index 356

Subject index 357

JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY and BIOELECTROCHEMISTRY AND BIOENERGETICS

Publication schedule for 1988 (please note that Vols. 233–238, belonging to the 1988 subscription, appeared in 1987)

Month	J	F	M	A	M	J	J	
J. Electroanal. Chem.	239/ 1+2 240/ 1+2	241/ 1+2 242/ 1+2	243/1 243/2	244/ 1+2 245/ 1+2	246/1 246/2	247/ 1+2 248/1	248/2 249/ 1+2	The publication schedule for further issues will be published later.
Bioelectrochem. Bioenerg.			253/1			253/2		